



Work Elements and Definitions by Category

Fiscal Year: 2010

(as of 10/16/2011)

This is the list of 80 work elements for Fiscal Year 2010.

Contracts that start in this fiscal year must use work elements from this list.

Click on the Work Element ID links below to view all instances of that Work Element, click the WE Name links to view the work element's background page, and click on the WE Owner links to email a question or suggestion to the BPA person responsible for the work element.

Environmental Compliance Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
165	Produce Environmental Compliance Documentation	Covers any work by the Contractor to investigate, gather, acquire, or prepare data and documents in support of obtaining environmental clearances for BPA. Work may include providing maps, drafting a biological assessment, obtaining permits, conducting public involvement activities, completing a cultural resource survey and report, inspecting water craft, vehicles, and heavy equipment for invasive species, implementing best management practices for lamprey, etc. Contractors are required to comply with all applicable federal, state, and local laws, including those that restrict the transport of invasive species. In all cases, environmental compliance work done by the Contractor must be separated from all other work. It is not permitted to combine environmental compliance activities with any other work element.	Donald Rose	<input type="checkbox"/>		<input type="checkbox"/>		

Planning and Coordination Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
99	Outreach and Education	Covers work to educate or communicate with the public. Includes conducting classes, seminars, workshops, training, symposia, and conferences. Excludes work to coordinate with landowners or other direct participants in on-the-ground conservation (include this type of coordination as part of the associated implementation WE), or work to identify and select new projects (WE#114, Identify and Select Projects).	Andre L'Heureux	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>



Planning and Coordination Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
114	Identify and Select Projects	Covers work by the contractor to identify, prioritize, assess, and ultimately select projects. Often associated with Model Watersheds, or habitat restoration programs that coordinate multiple projects within a larger umbrella project. Coordination work that helps identify and select projects or sites should be covered under this work element.	Benjamin Zelinsky	☐				
115	Produce Inventory or Assessment	Covers inventories and assessments specifically designed to support future implementation actions. Can include passage inventories, habitat condition inventories, or watershed assessments. Does not cover ongoing passage and habitat monitoring.	Jan Brady	☐	☐			☐
119	Manage and Administer Projects	Covers the administrative and technical work by the contractor to fulfill BPA's programmatic and contractual requirements such as financial reporting (accruals), and development of an SOW package (includes SOW, budget, property inventory).	David Byrnes	☐				
122	Provide Technical Review	The review of technical details, including but not limited to engineering plans, restoration plans, project selection, RM&E methods, and deliverable approval.	Benjamin Zelinsky	☐			☐	
174	Produce Plan	Covers a wide range of planning activities including but not limited to operation plans, management plans, maintenance plans, implementation plans, restoration plans, research, monitoring, and evaluation (RM&E) plans, Hatchery Genetic Management Plans (HGMPs), hatchery master plans, hatchery fish production plans, feasibility studies, and surveys (does not include land management plans; see WE#193, Produce Land Management Plan). Covers both strategic plans that will influence multiple projects and site-specific plans. Use WE#196, Council Step Process to cover labor and materials for the submission of documents required by the NPCC's 3-step process. Where WE#174, Produce Plan is used in a contract SOW for production of a Hatchery Master Plan, the contractor should review the NPCC's requirements under their 2001 Step Document, Section V., Elements A & B (http://www.nwcouncil.org/LIBRARY/2001/2001-29.pdf) to be sure this content is covered in the plan.	David Byrnes	☐	☐		☐	



Planning and Coordination Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
175	Produce Design and/or Specifications	Covers all work associated with the preparation of engineering or technical drawings, specifications and/or budgets required for the construction/installation of any structure or facility. May include ancillary work such as land surveying, photogrammetric surveys, field surveys, etc. For construction work not requiring a formal design (e.g., installation of a barbed-wire fence), this work may be included as a milestone under the corresponding work element.	Andre L'Heureux	☐			☐	☐
189	Coordination-Columbia Basinwide	Refers to coordination work that covers a large portion of the Columbia River Basin. Coordination which directly supports other project work should be covered in the details of the associated work element. Coordination work which helps identify or select projects and/or sites should be covered under WE#114, Identify and Select Projects. Coordination work related to a subbasin or other small region should be covered under WE#191, Watershed Coordination.	Carlos Matthew	☐				
191	Watershed Coordination	Refers to coordination work focused on a local watershed or subbasin. Coordination which directly supports other project work should be covered in the details of the associated work element. Coordination work which helps identify or select projects and/or sites should be covered under WE#114, Identify and Select Projects.	Cecilia Brown	☐				



Reporting Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
132	Produce (Annual) Progress Report	<p>This work element covers written reports of results that typically are submitted to BPA at the end of a contract period for dissemination to the public. Previously called "Annual" reports, these progress reports may cover less than a year or multiple years. They are not required or appropriate for all contracts in all years, but are particularly important when useful results are not captured by standard Pisces metrics or status reports. Progress Reports come in two types. "Technical" reports are used for contracts that involve WE#156, Develop RM&E Methods and Designs, WE#162, Analyze/Interpret Data, and/or WE#157, Collect/Generate/Validate Field and Lab Data when it is important also to report the data collection methods. Technical progress reports often use a scientific format, especially when it is important to describe the methods that produced the results. An alternative, less common format could follow the flow of activities described in the contract's statement of work (SOW-based format). Once uploaded to Pisces, Technical reports will be published as Department of Energy Technical Reports, per standard practice. "Non-technical" progress reports also will be uploaded to Pisces, which will provide public access, but will not be "published" as a DoE Technical Report. Non-technical reports may include photos, summaries of data, and lessons learned. They must document completion of the contract's work and capture important information that would not be readily available through other means (e.g., Pisces metrics and status reports). Report findings and lessons learned for data analysis or issues with project implementation that may help management of projects for the F&W program. Do not re-state formerly collected and reported data; nor should you report preliminary findings if the certainty or confidence in the statement may be counter to final results. If in an earlier phase of a longer term study, you find conclusive results, be sure to include these.</p>	Jason Karnezis	Optional				
141	Produce Other Report	<p>This work element covers any report required or produced for a contract, except those specifically covered under other work elements (e.g., WE#132, Produce (Annual) Progress Report, or WE#183, Produce Journal Article, or WE#185, Produce Pisces Status Report). If this work element is used for multiple reports in the same contract, then each report should be listed as a separate milestone.</p>	Linda Hermeston					



Reporting Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
185	Produce Pisces Status Report	This work element covers the reporting of status of milestones and deliverables in each contract. These milestone status reports shall be completed either monthly or quarterly as negotiated between the contractor and COTR. For any other type of status report required or produced for a contract, use WE#141, Produce Other Report - except those specifically covered under other work elements (e.g., WE#132, Produce (Annual) Progress Report, or WE#183, Produce Journal Article).	Gerald McClintock					

Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
29	Increase Instream Habitat Complexity and Stabilization	Work that adds natural materials instream to create habitat features or to improve channel morphology. Includes J-hooks, barbs, vortex weirs, and large woody debris (LWD). Can include work to stabilize or maintain a streambank, such as riprap, or improve complexity by creation of pools or fish spawning habitat by addition of gravel. If structures are being added primarily to overcome a fish passage barrier, use WE#184, Install Fish Passage Structure. If replacing or maintaining an existing structure use WE#186, Operate and Maintain Habitat/Passage/Structure. Also use WE#47, Plant Vegetation, if planting is used for bank stabilization or use WE#55, Erosion and Sedimentation Control, if other methods are used to control erosion in the riparian and upland zones.	Richard Golden Jr	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
30	Realign, Connect, and/or Create Channel	Active attempts to directly add sinuosity, meanders, side channels, and/or off-channel habitats (e.g., sloughs or oxbows). May include reconnection of historical channels (either via excavation or diversion of existing streamflow), excavation of new channels, and/or significantly improving the functionality of existing channels (e.g., creating a "natural" spawning channel for chum). If work is solely to add structures/features that change hydraulic conditions and that may eventually cause channel realignment, create a pool, or promote spawning then use WE#29, Increase Instream Habitat Complexity and Stabilization. If the work includes removal of a barrier for fish passage into upstream reaches of the existing channel, then use WE#84, Remove/Install Diversion, WE#85, Remove/Breach Fish Passage Barrier, or WE#184, Install Fish Passage Structure, since the miles of opened habitat must be recorded as a metric. If work is to create, restore, or enhance wetland function then use WE#181, Create, Restore, and/or Enhance Wetland.	Virgil Watts III	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	Conduct Controlled Burn	Use of fire to improve habitat.	David Roberts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Decommission Road/Relocate Road	Any activity that makes a road or trail unusable including adding berms, pits, boulders or logs, and/or ripping, scarifying, recontouring, or obliterating the road or trail with heavy equipment that may involve re-contouring the slope. Also use for building a road or trail in a more appropriate location to replace a decommissioned road or trail. If decommissioning by planting vegetation or seeding use WE#47, Plant Vegetation. If removal of fish barrier (e.g., culvert) is included, also use WE#84, Remove/Install Diversion, WE#85, Remove/Breach Fish Passage Barrier, or WE#184, Install Fish Passage Structure. If work also involves channel realignment, use WE#30, Realign, Connect, and/or Create Channel in addition to this work element.	Cecilia Brown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	Develop Alternative Water Source	Provision of water supply for livestock that is out of the riparian zone. Also called livestock water development or livestock water supply. Includes, but not limited to, watering troughs, spring and well development, and guzzler installation.	Sandra Fife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
35	Develop Pond	Develop a pond and its surrounding habitat for resident fish and/or waterfowl. May involve the installation of a water control structure or excavation. Does not apply to sediment control ponds (WE#55, Erosion and Sedimentation Control), acclimation ponds (WE#171, Build Artificial Production Facility), or wetlands (WE#181, Create, Restore, and/or Enhance Wetland).	Virgil Watts III	☐	☐		☐	☐
36	Develop Terrestrial Habitat Features	Includes the installation and/or creation of structures for the benefit of wildlife species, including, but not limited to, nest boxes/platforms, avian perches, snags, guzzlers, and artificial roosting sites.	Dorothy Welch	☐	☐	☐	☐	☐
38	Improve Road	Work designed to eliminate or reduce erosion, sediment, and/or toxic run-off from reaching streams, rivers, or wetlands from roads or trails currently in use. This includes road projects that reduce or eliminate inter-basin transfer of water, placement of structures to contain/ control run-off from roads or trails, road or trail reconstruction or reinforcement, surface and peak-flow drainage improvements, and roadside vegetation. These roads may be in or extend into the riparian zone.	Cecilia Brown	☐	☐	☐	☐	☐
40	Install Fence	Work to install various types of fence and/or gates. One should also include cattle guards or water gaps for livestock as part of the deliverable if these are applicable. This work is not generally intended to be used for upland fencing for pasture rotation purposes. Upland fencing for fish will be considered on a case by case basis. Upland fencing is authorized for parcels managed for wildlife if this is part of a management plan to exclude livestock. If work is to repair a fence or exclusion device, use WE#186, Operate and Maintain Habitat/Passage/Structure Structure. If a lease or other land use agreement of greater than 15 years is completed as part of the fence installation, you must also use WE#92, Lease Land in addition to WE#40, Install Fence (i.e., if you have an agreement for less than 15 years, only use WE#40, Install Fence). For a renewal of a lease or land use agreement that extends the period of time for fence protection, you must use WE#92, Lease Land instead of WE#40, Install Fence.	Jamie Swan	☐	☐	☐	☐	☐
44	Enhance Nutrients Instream	Addition of fish carcasses, or direct nutrient introduction methods to improve biological diversity in a stream or river.	Timmie Mandish	☐	☐	☐	☐	☐



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
47	Plant Vegetation	<p>Use during the first year (and only first year) of planting terrestrial or aquatic vegetation and/or applying seed (aerially, mechanically, and/or by hand) for purposes such as: wildlife cover and forage enhancement, erosion control and soil stabilization (run-off reduction and other soil destabilizing processes and activities not related to restoration after construction of facilities such as passage structures, buildings, or fish hatcheries), roughness recruitment, shading, restoration of native habitat, restoration after wildfires, and rehabilitation of removed roads/trails.</p> <p>All maintenance activities (irrigation, site prep, survival survey) which occur during the same contract period as planting/seeding should be included in this WE as milestones. See associated work elements and notes for this WE#47, Plant Vegetation for more guidance.</p>	Wynn Avocette	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Practice No-till and Conservation Tillage Systems	<p>Includes establishing conservation tillage systems that focus on increased crop residue during subsequent crop seeding, and/or the reduction or elimination of traditional tilling practices. Work may also include the purchase of chaff chopper/spreaders and other equipment (generally co-operatively purchased) designed to aid in no- or reduced- till operations and crop residue enhancement.</p>	Sarah Branum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52	Remove Mine Tailings	<p>Work to remove or re-contour remnant landscape effects from old mining operations. Could be terrestrial or aquatic in nature.</p> <p>If work also creates wetland or modifies channel use WE#181, Create, Restore, and/or Enhance Wetland and WE#30, Realign, Connect, and/or Create Channel.</p>	David Kaplowe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53	Remove Vegetation	<p>Removal of one or more plant species, or a number of individuals of a plant species, by mechanical, biological, and/or chemical means, or by controlled burn.</p> <p>Target species are often exotic or non-native plants, naturalized plants, or undesirable native plants, all of which may be considered to be noxious, invasive or "weeds". Includes the removal of both aquatic and terrestrial plants as well as tree stand manipulation due to encroachment or to create forage openings.</p>	Wynn Avocette	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
55	Erosion and Sedimentation Control	This is work that occurs in the riparian and upland zones, which may include the installation of water bars, gully plugs and culvert outlets, grassed waterways, grade stabilization structures, sediment catchment ponds/basins, regrading or terracing, and removal of drainage pipes and other blockages specifically to prevent erosion, sediment slumps, or landslides. This WE does not include improvements to roads or the planting of vegetation in applications other than surface soils stabilization. For that work, use WE#38, Improve Road or WE#47, Plant Vegetation, respectively.	Mary Haight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180	Enhance Floodplain/Remove, Modify, Breach Dike	Refers to the removal, breaching, or alteration/set-back of a dike to restore riparian/floodplain or wetland habitat. This may also involve the installation of a tidegate or culvert. Also includes re-contouring of habitat to restore or enhance wetland or floodplain functionality and connectivity.	Joseph Connor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
181	Create, Restore, and/or Enhance Wetland	<p>Refers to the creation, restoration, or enhancement of a wetland area or function. This may be from the installation of a water control structure, re-contouring, and excavation to improve habitat connectivity. If the wetland was created from dike removal, breaching or modification, or the installation of a tidegate or culvert to improve fish passage, also use WE#180, Enhance Floodplain/Remove, Modify, Breach Dike, or WE#184, Install Fish Passage Structure. If additional actions or techniques are implemented, make sure you properly document associated work elements, e.g., WE#35, Develop Pond, or WE#36, Develop Terrestrial Habitat Features. Habitat creation (establishment) is defined as the manipulation of the physical, chemical, or biological characteristics present to develop a wetland on a site, where a wetland did not previously exist. Creation results in a gain in wetland acres. Habitat restoration (re-establishment) is defined as the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to former wetlands that may have been filled or subsided. Re-establishment results in rebuilding a former wetland and results in a gain in wetland acres. Restoration results in rebuilding a former wetland and results in a gain in wetland acres by re-gradation of the elevation to support wetland vegetation and function. Habitat enhancement is defined as the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/historic functions of degraded wetland. Habitat enhancement is the manipulation of a site to heighten, intensify, or improve specific function(s), to change the growth stage or composition of the vegetation present, or is undertaken for a purpose such as water quality improvement, flood water retention, or wildlife habitat.</p>	Virgil Watts III	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
190	Remove, Exclude and/or Relocate Animals	Removal or relocation of fish and wildlife species and/or any actions employed to exclude non-native or undesirable fish and wildlife species from a particular area. For California sea lions, "removal" and "exclusion" only includes non-lethal hazing. For trapping California sea lions for the sole purpose of tagging, use WE#158, Mark/Tag Animals. Examples of "removal" of fish and wildlife species include the removal of bullfrog egg masses and adults or removal of northern pikeminnows. Examples of "exclusion" activities include the installation of a fish passage barrier to exclude non-native fish from high mountain lakes. Fencing activities designed to "exclude" livestock should use WE#40, Install Fence. An example of a "relocation" activity includes the relocation of beavers.	Anne Creason	Optional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Habitat/Passage O&M Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
22	Maintain Vegetation	Your objective is to maintain or enhance planted or pre-existing vegetation through activities such as plant competition reduction (scalping, mats), mowing, irrigation, fertilization, herbicide application, or the prevention or reduction of animal damage (browse repellents, tree tubes). This includes using different, or the same, treatment techniques in previously treated areas the second year, or later, of planting. Maintenance activities which occur during the first (initial) year of planting (such as installing tree tubes, fertilizing, animal repellents, etc.) should be a milestone under WE#47, Plant Vegetation.	Wynn Avocette	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Investigate Trespass	Efforts involved with establishing whether trespass is occurring (human or livestock). For fence maintenance use WE#186, Operate and Maintain Habitat/Passage/Structure.	Joe DeHerrera	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
27	Remove Debris	Removal of items such as trash, old buildings, and abandoned equipment from water or land. Does not include removal of a diversion or instream structure. For removal of organic matter when cleaning screens, use WE#186, Operate and Maintain Habitat/Passage/Structure.	Joe DeHerrera	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Habitat/Passage O&M Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
28	Trap and Haul	Work to capture and transport fish usually by means of trucking or barging for the purpose of assisting upstream and/or downstream migration and/or fish salvage operations. If trapping and hauling for predator control use WE#190, Remove, Exclude and/or Relocate Animals. If installing a fish trap, use WE#70, Install Fish Monitoring Equipment.	Timmie Mandish	☐	☐	☐	☐	☐
186	Operate and Maintain Habitat/Passage/Structure	Operation and maintenance of habitat features including, but not limited to, fences, instream structures, passage facilities, sediment control structures, and off-site water developments. Also includes the maintenance of residences, sheds, barns, and other buildings associated with habitat/passage projects. Use WE#188, Provide Access and Public Information for maintenance of access roads, parking areas, signs, and kiosks. Use WE#61, Maintain Hatchery, for operation and maintenance of facilities and structures associated with hatcheries. Use WE#197, Maintain/Remove Vegetation for vegetation maintenance.	Timmie Mandish	☐	☐	☐	☐	☐
188	Provide Access and Public Information	Installation and/or maintenance of signs, kiosks, information boards, access roads, trails, road closures, and parking areas. You should use this WE for trespass signing rather than WE#26, Investigate Trespass. Also, WE#61, Maintain Hatchery, should be used for this kind of work pertaining to hatchery operations and WE#38, Improve Road, should be used for road work associated with habitat improvement by reducing erosion.	Joe DeHerrera	☐	☐			☐
192	Law Enforcement	Provide enforcement activities on mainstems and tributaries, including two primary components: (1) reduce illegal take of Columbia Basin fish & wildlife, and (2) enforce habitat rules and regulations. Enforcement officers will enforce fisheries and habitat regulations, providing protection against illegal takes on resident fish, anadromous fish and Columbia River salmon species throughout their life cycle, i.e., "gravel to gravel," with an emphasis on weak stocks passing through the hydro-power corridor into tributary streams and critical habitats.	Tracy Hauser	☐		☐	☐	☐



Instream Passage Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
69	Install Fish Screen	Work to install or replace a fish screen associated with a diversion or pump. Typical screen types include rotary drum, flat plate or traveling. The design of complex or large-scale screens is typically a separate work element. See WE#175, Produce Design and/or Specifications.	Jamie Swan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80	Install Siphon	Covers work that installs a siphon, flume, or other structure to separate canal flow from stream flow where the two have been intermingled as part of past water diversion development, resulting in fish using the natural stream course for passage and rearing. If additional fish barriers are needed, include these as a milestone. This WE is specific to modifying existing structures; the design of these structures is typically a separate work element and should use WE#175, Produce Design and/or Specifications.	Carlos Matthew	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
84	Remove/Install Diversion	Work that removes, replaces, or avoids creating a fish passage barrier associated with a stream diversion, including push-up dams. May be part of a diversion consolidation effort that reduces the number of diversion sites. Includes installation of alternative ways to divert stream flow without creating passage barriers caused by traditional diversion structures. Examples include, but are not limited to, infiltration galleries, instream diversion pumps, and lay-flat stanchions.	Joseph Connor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85	Remove/Breach Fish Passage Barrier	Work that facilitates fish passage over a natural (e.g., beaver) or human-made barrier by breaching or removal. This includes dams, weirs, fish ladders, tidegates, culverts, bridges, and road crossings. If the dam is part of a diversion, use WE#84, Remove/Install Diversion. If installing a fish passage structure at the same location, use WE#184, Install Fish Passage Structure, and have removal of the passage barrier as a milestone under that work element.	Carlos Matthew	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Instream Passage Improvement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
184	Install Fish Passage Structure	<p>Install, replace, or modify structures when the intent is to improve fish passage and/or flow, typically by removing or modifying a full or partial instream barrier. "Structures" include: fish ladders, bridges, culverts, jump pools, and weirs. "Barriers" include such obstacles to fish passage as man-made dams (including push-up diversion dams), tidegates, weirs, culverts, rock fords and road crossings, as well as natural barriers such as logjams and natural streambeds. When using this work element, if work includes removing a fish passage barrier, include that work as a milestone under this WE instead of using WE#85, Remove/Breach Fish Passage Barrier.</p> <p>Where anadromous fish are present, structures installed must meet current NOAA specifications and USFWS specifications for bull trout and lamprey. Use WE#180, Enhance Floodplain/Remove, Modify, Breach Dike if the installation of a passage structure is associated with a dike removal, breaching, and modification, and may create additional acres of habitat as well as providing access to instream habitat. Use WE#70, Install Fish Monitoring Equipment, for weirs installed primarily to restrict fish passage for the purpose of monitoring or collecting fish (e.g., picket weirs). Design of complex or large-scale fish passage structures is often a separate work element (see WE#175, Produce Design and/or Specifications).</p>	Jay Marcotte	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Land Acquisition / Conservation Easement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
5	Land Purchase and/or Conservation Easement	This is a BPA Internal-use only work element. BPA uses this work element to describe directly wiring money to escrow associated with real estate transactions. This work element only covers the purchase price or option of the land or easement (it may include escrow, title, and/or closing costs). Any work performed by BPA's Transmission Business Line (TBL) in support of the real estate transactions shall be covered by WE#6, TBL Work (also a BPA Internal-use only work element).	Dorothy Welch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Land Acquisition / Conservation Easement Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
6	TBL Work	This is a BPA Internal-use only work element. BPA uses this work element for any work the Transmission Business Line (TBL) provides in support of a fish and wildlife project. May include appraisal review, appraisals, help in development of an MOA, real estate negotiations, survey/photogrammetry, and GIS work. Additionally, relocation costs associated with a land purchase are captured here.	Gerald McClintock	<input type="checkbox"/>				<input type="checkbox"/>
87	Prepare HEP Report	Efforts leading to a report to present the findings of the Habitat Evaluation Procedure (HEP) survey conducted by the Regional HEP team.	Sandra Fife	<input type="checkbox"/>				<input type="checkbox"/>
92	Lease Land	Includes riparian, grazing, and multiple-use leases, typically for multiple years.	David Roberts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172	Conduct Pre-Acquisition Activities	This work element includes the majority of the steps that are required before fee title or a conservation easement can be acquired for a tract of land. The steps include: perform appraisal, perform title searches, perform land boundary surveys, provide legal descriptions, perform hazardous waste assessment, and identify minimum habitat units. For easements, this work element would also include the definition of the easement terms and conditions.	Dorothy Welch	<input type="checkbox"/>				<input type="checkbox"/>

Hatchery / Major Construction Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
100	Construction Management	Oversight of construction, including activities ranging from conducting daily construction observation, to providing professional on-site inspection services, to construction management support, including contractor daily-log review; RFI review and responses; submittal review and responses; and key site observations, such as reinforcement inspection, concrete pour observation, and facility start-up. Usually this WE is used only on larger construction activities (\$250,000 or greater value) and/or where construction management is deemed to be important or complex enough to warrant splitting it out in a separate contract from the actual construction work.	Jay Marcotte	<input type="checkbox"/>				



Hatchery / Major Construction Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
168	Council 3-step Process: Step 1	Step 1 - conceptual planning, represented under the Program primarily by master plan development and approval. Activities necessary to coordinate Step 1, the conceptual/preliminary phase of the NPCC's 3-step process, include submitting required documents, responding to Council/ISRP questions, developing and providing additional materials, attending meetings with Council/ISRP, and making appropriate revisions, etc.	Patricia Smith	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
169	Council 3-step Process: Step 2	Step 2 - preliminary design and cost estimation, and environmental (NEPA and ESA) review. Activities necessary to coordinate Step 2, the progress review phase of the NPCC's 3-step process, include submitting required documents, responding to Council/ISRP questions, developing and providing additional materials, attending meetings with Council/ISRP, and making appropriate revisions, etc.	Patricia Smith	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
170	Council 3-step Process: Step 3	Step 3 - final design review prior to construction and operation. Activities necessary to coordinate Step 3, the final design phase of the NPCC's 3-step process, include submitting required documents, responding to Council/ISRP questions, developing and providing additional materials, attending meetings with Council/ISRP, and making appropriate revisions, etc.	Patricia Smith	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
171	Build Artificial Production Facility	Covers all work associated with the construction of a hatchery complex or any structural component of an artificial production facility or satellite facility (e.g., incubation rooms, rearing tanks/ponds, raceways, acclimation ponds, holding ponds, pumps, wells or other water supply, hatchery offices, staff housing, etc.). Also covers the expansion of any major component if it is intended to increase rearing capacity.	Patricia Smith	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>



Hatchery O&M Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
56	Acclimate Juvenile Fish	Includes work performed under contracts solely for acclimation of juvenile fish. If the full range of hatchery fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish.	Gregory Baesler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59	Incubate Eggs	Includes work performed under contracts solely for incubation of fish eggs. If the full range of hatchery fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish.	Gregory Baesler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60	Maintain Fish Health	Includes the work performed under contracts solely for fish health maintenance, such as fish health monitoring, pathology sampling, laboratory processing of samples, and consultation with fish health professionals. If the full range of hatchery fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish instead.	Deborah Docherty	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
61	Maintain Hatchery	Includes all maintenance and repair activities associated with fish production facilities, including maintenance of buildings, grounds, raceways, acclimation ponds, net pens, water treatment facilities, equipment, vehicles, etc. Also includes construction that does not expand the rearing capacity of the facility (e.g., replacing a raceway). This work element is intended to include activities related to care of physical structures and grounds and not the care of fish. Work to produce fish would be under WE#176, Produce Hatchery Fish.	Deborah Docherty	Optional	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
63	Rear Fish	Includes work performed under contracts solely for rearing of fish, e.g., contracts for net pen rearing of kokanee. Also describes captive rearing work. If the full range of hatchery fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish.	Gregory Baesler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64	Spawn Fish	Includes work performed under contracts solely for spawning of adult fish. If the full range of hatchery fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish.	Jonathan McCloud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66	Trap/Collect/Hold/Transport Fish - Hatchery	Includes work performed under contracts solely for trapping, collecting, transporting, and/or holding fish (all life history stages) for inclusion in a fish culture program. If the full range of fish culture activities is performed under a contract, use WE#176, Produce Hatchery Fish, with milestones for trapping, collecting, transporting, and/or holding fish, as appropriate.	Jonathan McCloud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Hatchery O&M Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
176	Produce Hatchery Fish	This work element includes the fish culture activities associated with a "typical" hatchery O&M contract: obtaining broodstock, spawning broodstock, incubating fertilized eggs, maintaining fish health, rearing juveniles, acclimating juveniles prior to release, releasing juveniles into a stream or lake, either onsite or from a separate acclimation facility and transportation of fish or eggs between various locations. O&M contractors should use this work element, "Produce Hatchery Fish," along with WE#61, Maintain Hatchery, in their SOWs. Use WE#60, Maintain Fish Health, if you are ONLY performing fish health activities under your contract.	Jonathan McCloud	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
187	Put and Take Fisheries	The stocking of a pond, lake or reservoir with hatchery reared fish for recreational fishing purposes. This includes the transport and stocking of the fish, and the operation and maintenance of the recreational facilities, e.g., bathrooms and access roads.	David Kaplowe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RM & E and Data Management Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
70	Install Fish Monitoring Equipment	Installation of a weir, trap, electronic portal, or other equipment or facility used to monitor fish passage or to collect juvenile or adult fish. This describes the installation of relatively permanent fixed facilities as well as more mobile equipment, like rotary screw traps for smolts. Use this WE when the effort/cost to install is substantial, otherwise installation (and removal) could simply be a milestone under the WE for which the equipment will be used, typically WE#157, Collect/Generate/Validate Field and Lab Data, or WE#158, Mark/Tag Animals.	Richard Golden Jr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>



RM & E and Data Management Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
156	Develop RM&E Methods and Designs	Work to identify and/or develop monitoring methods, designs, or associated tools. This includes statistical and sampling designs; protocols for field or remote sampling, data analysis, lab procedure, reporting standards, and quality assurance/quality control; development of data definitions and metadata; conceptual or simulation models; software development; tagging and other monitoring equipment; and generally any other work that prepares for the implementation of actual data collection/generation. Protocols, including temporal and spatial designs, data collection and analysis methods, and related metrics or indicators, will be "Published" in monitoringmethods.org. Does not apply to producing an RM&E plan itself (see WE#174, Produce Plan). Does not apply to models that are developed in the course of analyzing and interpreting existing data, such as multivariate models (see WE#162, Analyze/Interpret Data).	Barbara Shields	<input type="checkbox"/>	<input type="checkbox"/>			
157	Collect/Generate/Validate Field and Lab Data	Work to collect, create, generate, or capture source data as part of a data creation effort; collecting new empirical data; entering data into a computer spreadsheet/database; developing automated data capture programs/routines and related hardware/software (e.g., PDAs, data loggers, thermographs); preparing metadata; and quality assurance/quality control processes. This includes any preparations for collecting data if not covered by another work element. This work element covers the collection of field samples/specimens (e.g., tissue, macroinvertebrate, or water quality samples), remote sensing data and the subsequent laboratory analyses of field samples/specimens and generation of data summaries. If work is to analyze the data or work to derive indicators then use WE#162, Analyze/Interpret Data.	Barbara Shields	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



RM & E and Data Management Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
158	Mark/Tag Animals	Covers activities integral to placing marks/tags on animals. Recognizing that this is a subset of data collection/generation, it has been separated to facilitate tracking the sometimes-significant costs associated with animal marking/tagging. This work element includes capture and bio-sampling activities when they support a primary purpose of placing the mark/tag. It also includes monitoring the effects of the mark/tag on the animals (e.g., tagging mortality), the mark/tag retention/detectability, other QA/QC for the mark/tag data, and creation of associated metadata. It does not include capture activities when the primary purpose is to collect biological data and does not include subsequent mark/tag observations and analysis.	Richard Golden Jr	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
159	Transfer/Consolidate Regionally Standardized Data	This work is for transferring or reformatting data from one spreadsheet/database to another, typically primary data from a field or lab site to a higher-level, secondary regional or national database. This may also include derived data if such data are calculated by entities other than the secondary database. It includes both the act of sending and receiving, hardware/software needs for automated uploads/downloads (e.g., transmission and relay links for regular nightly uploads from remote telemonitoring sites), the development and application of data exchange protocols (including QA/QC), and any formatting and documentation required to make the transfer. It does not include initial data entry but it does include manipulating (e.g., reformatting and, if appropriate, georeferencing) data at the receiving end. This work element explicitly reinforces the importance of transferring data to databases where they will be maintained and accessible. Capturing data above the field or lab level includes acquisition in electronic formats, entering data into a computer from historical records, digitizing images, and other methods for converting information to digital format for later dissemination or analysis. This work element may include generating secondary/derived data when those data are stored in regional databases for access and use by other parties.	Russell Scranton	<input type="checkbox"/>			<input type="checkbox"/>	



RM & E and Data Management Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
160	Create/Manage/Maintain Database	Any work that maintains or improves the security, quality, accessibility, or utility of data. Includes creation of relational databases; creation of computer applications to manage data, creation of standardized data formats, management of the data within the database, database hardware/software maintenance and improvement, QA/QC, building and maintaining connectivity with interrelated applications (e.g., GIS), integrating with distributed information management systems using industry standards for discovery (i.e., web portals) and creation of metadata/documentation and user-support materials for the consolidated data, etc. This applies both to larger regional, secondary databases and to local primary databases (can include spreadsheets) maintained on desktops for individual projects. Does not include generation of data queries or reports, except for internal data management and QA.	Russell Scranton	☐				
161	Disseminate Raw/Summary Data and Results	All work that makes data and information available to others, except for written products covered specifically by other work elements. Includes maps, data query systems, internet data distribution (including online data query systems and web services), development and use of online data display tools, library and archival services, integration with distributed information management systems using industry standards for data display and analysis, and oral and abstract presentations of results to professional audiences. For regional data management projects this can include dissemination of information about the purpose, functions and tools of the data management projects themselves. For outreach and education to students, the general public, and other non-professional audiences, see WE#99, Outreach and Education.	Russell Scranton	☐			☐	



RM & E and Data Management Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
162	Analyze/Interpret Data	Data analysis that goes beyond generation of data summaries from data collected or generated in the field or through remote sensing. These activities apply analytical tools to derive variables, or indicators to inform management decisions. Often involving tests of statistical significance, this work element also may include modeling, indices, and synthesis. Typically culminates in resource management recommendations presented in a report of research/evaluation findings or analyses presented as formal publications. Also use the "Reporting" WE category if the project generates reports or publications from the analyzed data.	Barbara Shields	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
182	PIT Tags	This is a BPA Internal-use only work element. BPA uses this work element to capture the cost of PIT tags purchased by BPA on behalf of the contractor(s). While this work element is not included in the contractor's statement of work, it is a project expense. Use WE#158, Mark/Tag Animals, for contractor expenses associated with ordering and/or implanting the tags in fish or wildlife.	Sharon Grant	<input type="checkbox"/>			<input type="checkbox"/>	
183	Produce Journal Article	This work element should only be used when either the study is complete, or when a very significant stage of the data collection and analyses are done, and the subject matter is well defined. Separate work elements should be used for each document. The "general title/subject" should be named in the WE title. If you do not have a proposed title (or subject), you may not be far enough along in the data analysis to be using this work element. This work element applies only to manuscripts being submitted for possible peer-reviewed publication. Other technical analyses should be included as part of a project progress report WE#132, Produce (Annual) Progress Report.	Peter Lofy	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	



Water Conservation and Irrigation Practices Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
82	Install Well	Install well to enable groundwater to be used for irrigation as an alternative to instream flow. Wells installed to provide water for livestock should be covered under WE#34, Develop Alternative Water Source. Wells installed to provide hatchery or acclimation water supplies should be covered under WE#171, Build Artificial Production Facility. If a well is being installed to provide water instream, also use WE#154, Develop and Negotiate Water Right Transaction and WE#164, Acquire Water Instream.	Jay Marcotte	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148	Install Flow Measuring Device	Includes activities for installing and/or moving electrical flow gauges or other complex flow measuring devices, such as flow gauges using telemetry to transmit data. Devices may be fixed or portable, and tend to be left in place for a full season or longer. Actual measurement would occur under WE#157, Collect/Generate/Validate Field and Lab Data.	Christopher Furey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
149	Install Pipeline	<p>Includes activities related to installing a pipeline . This work element is only for work designed to provide irrigation efficiencies which result in increased instream flow. Other options should have already been considered to accomplish this purpose, such as water transactions or obtaining cost-share for this work element and subsequently transferring conserved water instream.</p> <p>To cover initial work to put conserved water instream, including coordinating with the Columbia Basin Water Transactions Program, also use WE#154, Develop and Negotiate Water Right Transaction and WE#164, Acquire Water Instream.</p> <p>If the pipeline is part of a larger irrigation consolidation project that involves eliminating a diversion, then you must also use WE#84, Remove/Install Diversion. WE#149, Install Pipeline is often used in conjunction with WE#150, Install Sprinkler. In these cases, be careful not to double-count metrics. Avoid this by entering metrics only for WE#149, Install Pipeline, not WE#150, Install Sprinkler. If the purpose of the pipeline is to provide water to livestock, use WE#34, Develop Alternative Water Source instead.</p>	Jamie Swan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Water Conservation and Irrigation Practices Work Elements**

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
150	Install Sprinkler	Includes activities related to installing a sprinkler system. This work element is only for work designed to provide irrigation efficiencies which result in increased instream flow. Thus, other options should have already been considered to accomplish this purpose, such as water transactions or obtaining cost-share for this work element and subsequently transferring conserved water instream. To cover initial work to put conserved water instream, including coordinating with the Columbia Basin Water Transactions Program, also use WE#154, Develop and Negotiate Water Right Transaction and WE#164, Acquire Water Instream.	Jan Brady	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
151	Line Diversion Ditch	Includes activities related to lining a ditch. This work element is only for work designed to provide irrigation efficiencies which result in increased instream flow. Thus, other options should have already been considered to accomplish this purpose, such as water transactions or obtaining cost-share for this work element and subsequently transferring conserved water instream. To cover initial work to put conserved water instream, including coordinating with the Columbia Basin Water Transactions Program, also use WE#154, Develop and Negotiate Water Right Transaction and WE#164, Acquire Water Instream.	Sarah Branum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Water Transactions Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
154	Develop and Negotiate Water Right Transaction	Covers initial aspects of completing water right transactions from preliminary evaluation of the viability of a specific transaction opportunity to preparing the water transaction. May include: negotiating, proposing, and review of water deals through the Columbia Basin Water Transactions Program (www.CBWTP.org) process. Entities seeking to do a water transaction or conserve water should contact the CBWTP to acquire or transfer water instream. Work element does not include general landowner coordination before any transaction opportunity is identified. Includes development of transactions to put more water instream such as split season leases, long-term leases, diversion reduction agreements, permanent water transfers, stored water agreements to increase stream flows, conserved water, and water exchanges.	Christopher Furey	□				



Water Transactions Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
164	Acquire Water Instream	<p>Covers final aspects to complete implementation of water transactions through the Columbia Basin Water Transactions Program process to maintain and/or increase the flow of water to provide needed habitat conditions. Work includes steps for payment of funds to water right holder and/or completion of agreement for securing protected water instream. The work element involves the purchase or transfer of water rights for instream purposes, and these water allocations are not withdrawn from the stream. This work element is generally linked with WE#154, Develop and Negotiate Water Right Transaction.</p> <p>This work element may be linked with WE#82, Install Well, WE#149, Install Pipeline, WE#150, Install Sprinkler, and WE#151, Line Diversion Ditch for purposes of legally transferring conserved water instream. Entities using these irrigation efficiency work elements and putting water instream should coordinate with the CBWTP to complete a CBWTP water transaction checklist to ensure conserved flow is put instream and this work element is used to collect metrics for the amount of flow secured instream. See www.cbwtp.org for more information regarding the Columbia Basin Water Transactions Program. This work element may often be used in a separate contract, such as a contract under the CBWTP, instead of the contract with irrigation efficiency work elements due to the time involved for the conserved water application to be processed through the state water agency. This work element may also be used to transfer water rights instream that were secured from an earlier land transaction if the water rights were not dedicated to instream purposes at the time of acquiring the land and putting the water rights instream is consistent with the fish and wildlife purposes.</p>	Christopher Furey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Other Work Elements

ID	Work Element Name	Definition	WE Owner	Deliverable Needed	EC Review Required (1)	Metrics Needed	Focal Species Needed	Location Needed
98	Other	In rare instances, a contractor may be performing a type of work that is fundamentally different than anything described by existing work elements. In such a case, the contractor should consult with his or her BPA project manager to determine if using the "Other" work element is appropriate.	Sarah Branum	☐	☐		☐	☐

This report summarizes 80 data records available for independent analysis in

[structured text \(.TXT\)](#) and in [Excel 2003 \(.XLS\)](#) format.

Footnotes:

1. EC = Environmental Compliance.